



Recommended Next Steps For Improving Quantitative Information

California Water Plan
Advisory Committee Meeting
August 17, 2005



Objectives for Presentation

- Review June 3rd workshop
- Describe next steps to improve quantitative information for the next Water Plan



June 3rd Workshop Objectives

- **Morning** – Discussed 3 groups of planned activities related to quantitative information
- **Afternoon** – Proposed method to produce numbers for the California Water Plan



June 3rd Workshop

Planned Activities

- **Collaboration** – How can we work together effectively for long-term quantitative development?
- **Information exchange** – What role can state serve in sharing information for regional and statewide planning?
- **Numbers for the Water Plan** – How to produce quantitative deliverables?



June 3rd Workshop

Proposed Method

- Focus on one reporting metric at a time (e.g., urban water supply reliability)
- Capture and document conceptual design to compute reporting metric
- Interact with experts to create and refine conceptual design
- Select potential implementation techniques and test along the way



June 3rd Workshop

Unified Process

- Standard analysis and design approach used by software industry
- Iterative approach that uses object oriented thinking
- Used with the Unified Modeling Language to document the conceptual design



Recommended Next Steps

Promoting
Collaboration

Facilitating
Information
Exchange

Improving
the Numbers



Promoting Collaboration



Next Steps for Promoting Collaboration

- Developing an Institutional Setting
 - DWR will take lead to form a broader **Institutional Framework**
 - California Water and Environmental Modeling Forum has identified several possibilities
 - DWR will seek advice from the Analytical Tools and Data Workgroup on how best to proceed



Next Steps for Promoting Collaboration

- Partnering on Near-Term Studies
 - 💧 DWR has identified several proposals to improve analytical tools and data
 - 💧 DWR will work with the Analytical Tools and Data Workgroup to identify and prioritize areas of research and partnering



Next Steps for Promoting Collaboration

- Current Partnerships
 - DWR is working with RAND Corporation and others to evaluate uncertainty in water management using scenarios
 - DWR is working with Natural Heritage Institute and others to evaluate the effects of climate change using the WEAP model
 - Other opportunities ...



Facilitating Information Exchange



Next Steps for Facilitating Information Exchange

- DWR will meet with and learn from others
 - Regional planning agencies
 - Information exchange websites
 - Data management efforts



Next Steps for Facilitating Information Exchange

- DWR will work through new **Institutional Framework** to develop an information exchange strategy
 - Glossary of terms
 - Water budget components
 - Data guidelines



Next Steps for Facilitating Information Exchange

- Start by linking and/or publishing data used by the Water Plan and CALFED Bay-Delta Program
 - Urban water use efficiency
 - Agricultural water use efficiency
 - Conjunctive management
 - Water recycling
 - Desalination
 - Water transfers



Next Steps for Facilitating Information Exchange

- Initial information sources
 - Land and Water Use database and web portal
 - Water Portfolios
 - State water bond grant proposals
 - 2005 Update of Urban Water Management Plans
 - Agricultural Water Management Plans
 - Latter efforts may include General Plan Info



Improving the Numbers



Next Steps for Improving the Numbers

- Three sets of quantitative deliverables
 - Water Portfolios
 - Future Scenarios
 - Alternative Response Packages



Next Steps for Improving the Numbers

- DWR will learn about and evaluate the use of the Unified Process or similar approach
- DWR will work through new **Institutional Framework** to develop conceptual design



Summary

- DWR has identified 3 broad, interrelated activities to improve analytical capabilities
 - Promoting collaboration
 - Facilitating information exchange
 - Improving the numbers
- We have identified some initial next steps
- Key activity is initiating the **Institutional Framework**

